UNITED STATES PATENT AND TRADEMARK OFFICE

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10/608,298	06/27/2003	Cesar A. Galindo-Legaria	MSFT-1795 (303912.01)	9011

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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)
Office Action Summary	10/608,298	GALINDO-LEGARIA ET AL.
	Examiner	Art Unit	
	Hanh B. Thai	2163	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>amendment filed 4/26/07</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1-26</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1-26</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some *   c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5)☐ Notice of Informal Patent Application

6)☐ Other: _____.

DETAILED ACTION

1.   The following is a Final Office Action in response to the communication received on

April 26, 2007. Claims 1-26 are pending in this application.

Response to Arguments

2.   Applicant's arguments with respect to claims 1-26 have been fully considered but they are

not persuasive.

Examiner is not persuaded. Examiner has correctly interpreted "join" in light of the

specification as shown below:

Applicant's specification disclosures in paragraph 61, the following:

"[0061] In operation, actions 510 are executed to achieve a desired outcome
on the underlying tables supporting a subscription of a database environment
(e.g. adding rows). The results of actions 510 (e.g. data from the rows) are
then spooled by spool 520. The spooled data is then filtered according to
pre-defined filter constraints by filter 540. <u>The resultant filtered data is
then joined with parameters (not shown) from parameter table 540 by join
function 550. The result of the join function 550 is a query template for
execution by the fire search function 560.</u> The fire search function executes
the query on cooperating data stores (not shown) to obtain desired data.
Exemplary subscription scalability system 500 is more fully described by the
following illustrative implementation."

Shrivastava discloses in paragraphs 76-86, the following:

".....this portion of the base template contains SQL statement that combine the results of the SQL statements from
the body section with particular rows from the attribute_store and distinguished name tables. In addition, this portion
of the base template contains statements to filter and order/sort the results of the search query."

The above disclosure from the specification and Shrivastava proves that examiner has

correctly interpreted the word "join."

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3.   Claims 1-26 are rejected under 35 U.S.C. 102(e) as being anticipated by Shrivastava et al.

(US Pub. 2004/0243576 A1).

Regarding claims 1 and 10, Shrivastava discloses a method for providing notifications of

changes in a database system comprising:

- creating a subscription template (abstract; ¶[0011]; [0185]-[0186] , Shrivastava);

- parameterizing the subscription template to generate a parameter table (abstract;

    ¶[0011]; [0185]-[0186] , Shrivastava discloses "catalog tables" and "SQL statement"

    corresponding to the claimed "parameter table" and "subscription template"

    respectively); and

- performing a join between parameter table and parameterized subscription template to

    generate a query (abstract; ¶[0011]; [0076]-[0086] and [0185]-[0186] , Shrivastava

    discloses the performance of a join operation to produce the query results reads on the

    claimed "a join between parameter table and parameterized subscription template to

    generate a query").

Regarding claim 2, Shrivastava discloses executing an action upon performing the join,

wherein the action comprises any of: performing a query and communicating data from the

database system to cooperating computing applications (abstract; ¶[0011]; [0185]-[0186] ,

Shrivastava).

Regarding claim 3, Shrivastava discloses executing the query (abstract; ¶[0011]; [0185]-

[0186] , Shrivastava).

Regarding claim 4, Shrivastava discloses retrieving data from the database system (abstract; ¶[0011]; [0185]-[0186] , Shrivastava).

Regarding claim 5, Shrivastava discloses communicating the data retrieved from the database system to cooperating services and/or computing applications (abstract; ¶[0011]; [0185]-[0186] , Shrivastava).

Regarding claim 6, Shrivastava discloses storing a subscription identification value (abstract; ¶[0011]; [0176]; [0185]-[0186] , Shrivastava).

Regarding claim 7, Shrivastava discloses associating the subscription identification value with a subscriber (¶[0011]; [0176]-[0186] , Shrivastava).

Regarding claim 8, Shrivastava discloses providing notifications to subscribers ([0176]-[0184] , Shrivastava).

Regarding claim 9, Shrivastava discloses adding additional parameters to the parameter table, wherein the additional parameters are not based on the created subscription template (¶[0011]; [0176]-[0186] , Shrivastava).

Regarding claim 11, Shrivastava discloses a system to increase subscription scalability in an electronic database environment comprising:

- a database system ("database", ¶[0045]; [0059] [0062] , Shrivastava), the database system capable of accepting and processing subscriptions by cooperating services and/or computing applications, the subscriptions offering query templates for execution on database system to retrieve desired data (¶[0011]; [0176]-[0186] , Shrivastava);

- a notification manger ("particular manager" that sends emails to all users, [0184]), the
notification manager operating on the database system to identify changes in data in
the database system and to provide notifications to the cooperating services and/or
computing applications of database system changes ([0176]-[0186] , Shrivastava).

- an optimization module, the optimization module using queries originating from
subscribers to create subscription templates (abstract; ¶[0011]; [0185]-[0186] ,
Shrivastava) which are parameterized to create a parameter table (abstract; ¶[0011];
[0076]-[0086] and [0185]-[0186] , Shrivastava discloses "catalog tables" and "SQL
statement" corresponding to the claimed "parameter table" and "subscription
template" respectively), wherein the parameter table is joined with the subscription
template to generate a notification query (abstract; ¶[0011]; [0185]-[0186] ,
Shrivastava discloses the performance of a join operation to produce the query results
reads on the claimed "the parameter table is joined with the subscription template to
generate a notification query").

Regarding claim 12, Shrivastava discloses the optimization module comprises a
computing application (abstract; ¶[0011]; [0185]-[0186] , Shrivastava).

Regarding claim 13, Shrivastava discloses a communication means, the communication
means for use in communicating data between the database system and the cooperating services
and/or computing applications (abstract; ¶[0011]; [0185]-[0186] , Shrivastava).

Regarding claim 14, Shrivastava discloses a spool, the spool used to spool subscription
queries (abstract; ¶[0011]; [0185]-[0186] , Shrivastava).

Regarding claim 15, Shrivastava discloses a filter, the filter used to filter out subscription queries (¶[0077]-[0079] and [0083] , Shrivastava).

Regarding claim 16, Shrivastava discloses an execution module, the execution module executing the notification query on the database system ([0176]-[0184] , Shrivastava).

Regarding claim 17, Shrivastava discloses the notification manager and the database system reside in the same data environment ([0176]-[0184] , Shrivastava).

Regarding claim 18, Shrivastava discloses the notification manager, the database system, and the optimization module reside in the same environment ([0176]-[0184] , Shrivastava).

Regarding claim 19, Shrivastava discloses wherein the parameter tables comprise any of query constants, subscriber identification information, and subscriber routing information ([0176]-[0184] , Shrivastava).

Regarding claims 20 and 26, Shrivastava discloses a method for increasing subscription scalability in electronic data environments comprising:

- accepting subscriptions from cooperating services and/or computing applications by a database system; processing the subscriptions to generate query templates, the query templates having queries (¶[0011]; [0176]-[0186] , Shrivastava);

- parameterizing the query templates to generate a parameter table (abstract; ¶[0011]; [0185]-[0186] , Shrivastava discloses "catalog tables" and "SQL statement" corresponding to the claimed "parameter table" and "subscription template" respectively); and

- joining the parameter table with the query templates to generate a notification query (abstract; ¶[0011]; [0076]-[0086] and [0185]-[0186] , Shrivastava discloses the

performance of a join operation to produce the query results reads on the claimed

"joining the parameter table with the query template to generate a notification

query").

Regarding claim 21, Shrivastava discloses spooling the query templates (abstract

¶[0011]; [0185]-[0186] , Shrivastava).

Regarding claim 22, Shrivastava discloses filtering the query templates (¶[0077]-[0079]

and [0083] , Shrivastava).

Regarding claim 23, Shrivastava discloses executing the notification query ([0176]-

[0184] , Shrivastava).

Regarding claim 24, Shrivastava discloses the results of the notification query to the

cooperating services and/or computing applications ([0176]-[0184] , Shrivastava).

Regarding claim 25, Shrivastava discloses adding parameters to the parameter table not

originating from the query templates (¶ [0046]-[0049] and [0054], Shrivastava).

Conclusion

4.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time

policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the mailing

date of this final action.

5.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Hanh B. Thai whose telephone number is 571-272-4029. The

examiner can normally be reached on Mon-Thur (7:00AM - 4:30 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Don Wong can be reached on 571-272-1834. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Hanh B Thai
Examiner
Art Unit 2163

June 6, 2007

DON WONG
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